

Substitute for Form 1449 A & B/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary) Sheet 1 of 1		Application Number	10/827,448
		Confirmation Number	2726
		Filing Date	April 20, 2004
		First Named Inventor	Mayumi TAKAMORI
		Art Unit	1281 1621
		Examiner Name	NAZARIO-GONZALEZ
		Attorney Docket Number	Q80999

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 5,130,172	A	07-14-1992	Hicks, et al.

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>3</sup> (if known)			
		WO	91/01361	A	02-07-1991	Fuel Tech, Inc.	
		JP	11-292888	A	10-26-1999	Kojundo Chem. Lab Co., Ltd.	Abstract

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		FUJISAWA, et al., "Ir thin films for PZT capacitors prepared by MOCVD using a new Ir precursor", Materials Research Society Symposium Proceedings, vol. 784, 2004, pages 269-274	
		KAWANO, et al., "A novel iridium precursor for MOCVD", Materials Research Society Symposium Proceedings, vol. 784, 2004, pages 145-150	
		BUCHMANN, et al., "Reactions with metal-coordinated olefins. Part VI. Transition metal NMR spectroscopy. Part X. Protonated diolefin complexes: model systems for carbon-hydrogen activation via metal complexation", Helvetica Chimica Acta, vol. 70, no. 6, 1987, pages 1487-1506	
		GREEN, et al., "Helium (He I) and helium (He II) photoelectron spectroscopic studies of the bonding in cobalt, rhodium and iridium cyclopentadienyl diene complexes", Organometallics, vol. 3, no. 2, February 1984, pages 211-217	
		POWELL, "Diene and dienyl complexes of transition elements V. Preparation of .eta.-cyclopentadienyl-.eta.-methyl dionoaterrhodium and -iridium complexes: base hydrolysis and protonation studies", Journal of Organometallic Chemistry, vol. 243, no. 2, February 8, 1983, pages 205-211	
		POWELL, "Diene and dienyl complexes of transition elements. III. Protonation of .eta.-cyclopentadienyl-.eta.-dienolrhodium and -iridium complexes: synthesis of cationic complexes containing open chain pentadienyl ligands", Journal of Organometallic Chemistry, vol. 206, no. 2, February 24, 1981, pages 239-255	
		POWELL, "Diene and dienyl complexes of transition elements. II. The protonation of .eta.-diaryldienone (.etal.-cyclopentadienyl)rhodium(I) and -iridium(I) complexes", Journal of Organometallic Chemistry, vol. 206, no. 2, February 24, 1981, pages 229-237	
		POWELL, ".eta.5-Cyclopentadienyl-.eta.5-syn-1-methylpentadienylrhodium and iridium cations - preparation and reactions with nucleophiles", Journal of Organometallic Chemistry, vol. 165, no. 3, February 6, 1979, pages C43-C46	
		POWELL, "Diene complexes of rhodium and iridium: preparation of complexes of the type 'M(diene)(C5H5)!' using dienone and dienal ligands", Journal of Chemical Research, Synopses, no. 8, 1978, page 283	
		JOHNSON, et al., "Reactivity of coordinated ligands. XIII. Electrophilic substitution reactions of 1,3-cyclohexadiene complexes of rhodium (I) and iridium (I)", Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry, no. 19, 1972, pages 2084-2089	
		WINKHAUS, et al., "Iridium(I)-Olefinkomplexe", Chemische Berichte, Verlag Chemie GMHB. Weinheim, DE, vol. 99, 1966, pages 3610-3618	
		ORO, "eta-Cyclopentadienyl (butadiene)iridium(I)", Inorganica Chimica Acta, vol. 21, 1977, page L6	
Examiner Signature		Date Considered 12/10/04	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Complete if Known			
		Application Number	10/827,448		
OCT 07 2004 PATENT & TRADEMARK OFFICE		Confirmation Number			
		Filing Date	April 20, 2004		
		First Named Inventor	Mayumi TAKAMORI		
		Art Unit	1621		
		Examiner Name	NAZARIO-GONZALEZ		
Sheet	1	of	2	Attorney Docket Number	Q80999

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>4</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
		JP	11-292888	A	10-26-1999	Kojundo Chem. Lab Co., Ltd.	Abstract

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>4</sup>
		CHAPMAN AND HALL, "Dictionary of Organometallic Compounds", vol. one, Ag-Mn, Iridium entry, pp. 1152-1197, 1984	
		WILKINSON, et al., "COMPREHENSIVE ORGANOMETALLIC CHEMISTRY, The Synthesis, Reactions and Structures of Organometallic Compounds", vol. 5, pp. 303-419, 1982	
		ABEL, et al., "Comprehensive Organometallic Chemistry II, A Review of the Literature 1982-1994", vol. 8, Cobalt, Rhodium, and Iridium, pp. 541-628, 1995	
		SHIMIZU, et al., "MOCVD OF Ir AND IrO <sub>2</sub> , THIN FILMS FOR PZT CAPACITORS", Materials Research Society Symp. Proc. vol. 655, pp. CC1.10.1-CC1.10.6, 2001	
		ONDERDELINDEN, et al., "Chloro- and Bromo-(alkene)iridium(I) Complexes", Inorganica Chimica Acta, vol. 6:3, pp. 420-426, September 1972	
		WINKHAUS, et al., "Iridium(I)-Olefinkomplexe", Chem. Ber. vol. 99, pp. 3610-3618, 1966	
		ORO, "π-Cyclopentadienyl(butadiene)iridium(I)", Inorganica Chimica Acta, 21 (1977) L6	
		MÜLLER, et al., "π-Olefin-Iridium Komplexe, XIX *. Synthese, Struktur und Reaktivität von Bis(dien)iridium-benzyl-, cyclopropyl-, -vinyl- und -cyclopentadienyl-Komplexen", Journal of Organometallic Chemistry, 471 (1994) pp. 249-258	
		JOHNSON, et al., "Reactivity of Co-ordinated Ligands. Part XIII. Electrophilic Substitution Reactions of Cyclohexa-1,3-diene Complexes of Rhodium(I) and Iridium(I)", J.C.S. Dalton, pp. 2084-2089 (1972)	
		MÜLLER, et al., "π-OLEFIN-IRIDIUM KOMPLEXE IV. UMSETZUNGEN VON CHLORO-DIEN-IRIDIUM-VERBINDUNGEN MIT LITHIUMORGANYLEN", Journal of Organometallic Chemistry, 191 (1980) 303-311	
		GREEN, et al., "He I and He II Photoelectron Spectroscopic Studies of the Bonding in Cobalt, Rhodium, and Iridium Cyclopentadienyl Diene Complexes", Organometallics, 1984, 3, 211-217	

Examiner Signature	<i>Refugio Nazario Gonzalez</i>	Date Considered	12/10/04
--------------------	---------------------------------	-----------------	----------






\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

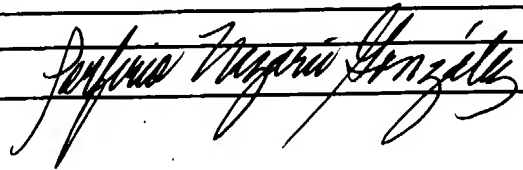
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Complete if Known	
				Application Number	10/827,448
				Confirmation Number	
				Filing Date	April 20, 2004
				First Named Inventor	Mayumi TAKAMORI
				Art Unit	1621
				Examiner Name	NAZARIO-GONZALEZ
				Attorney Docket Number	Q80999
Sheet	2	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		MOSELEY, et al., "Pentamethylcyclopentadienyl-rhodium and -iridium Halides. Part III. Reactions with Cyclohexadienes", J. Chem. Soc., 1970, pp. 2884-2889	
		HOKE, et al., "Low-temperature Vapour Deposition of High-purity Iridium Coatings from Cyclooctadiene Complexes of Iridium, Synthesis of a Novel Liquid Iridium Chemical Vapour Deposition Precursor", J. Mater. Chem., 1991, 1(4), 551-554	
		MOROZOVA, et al., "Thermal Properties of Ir(I) Precursors: Acetylacetonato(1,5-Cyclooctadiene)Iridium(I) and (Methylcyclopentadienyl)(1,5-Cyclooctadiene)Iridium(I)", Institute of Inorganic Chemistry of Siberian Branch of Russian Academy of Sciences	
		WINKHAUS, et al., "Iridium (I)- Diolefinkomplexe", Z. Naturforschg. 20b, 602-603 (1965)	
		BEZRUKOVA, et al., "Cyclohexa-1, 3-diene in Synthesis of $\eta^4$ -diene, $\eta^3$ -dienil and $\eta^6$ Arene derivatives of platinum metals, Nesmeyanova Institute of element-organic complexes, Academy of Science, USSR, pp. 2071-2076 (1986)	

Examiner Signature		Date Considered	12/19/04
--------------------	---	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.